CLAIMS

What is claimed is:

method of managing communication resources between nodes of a network, involving both dynamic and static assignment of communication time slots, the method comprising:

establishing a network comprising a plurality of dynamic nodes, network communication being accomplished via assignment of time slots of a time multiplex structure, said plurality of dynamic nodes participating in a dynamic assignment protocol, each of said plurality of dynamic nodes being capable of assigning itself a time slot from available time slots of said time multiplex structure, said network further comprising at least one static node not participating in the dynamic assignment protocol; and

pre-assigning a time slot in said time multiplex structure to said at least one static node.

2. The method of claim 1, further comprising the step of:

pre-assigning a time slot in said time multiplex structure to at least one dynamic node of said plurality of dynamic nodes.

- 3. The method of claim 2, wherein said at least one dynamic node of said plurality of dynamic nodes is a surrogate node coordinating communication between said at least one static node and said plurality of dynamic nodes.
 - 4. The method of claim 1, further comprising a plurality of static nodes.
 - 5. The method of claim 1 wherein said at least one static node is not capable of participating in the dynamic assignment protocol.
 - 6. The method of claim 1, wherein said at least one static node does not participate in the dynamic assignment protocol because it is critical to network operations.
 - 7. The method of claim 1, wherein said time multiplex structure comprises a time division multiple access protocol.

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N 8. The method of claim 1, further comprising a frequency division multiple access protocol operating in conjunction with said time multiplex structure.

9. The method of claim 1, wherein said dynamic assignment protocol comprises a unifying slot assignment protocol.

10. A communication system, comprising:

a network of nodes, each node being capable of communication during time slots of a time multiplex structure;

a plurality of nodes of said network of nodes participating in a dynamic assignment protocol, each node of said plurality of nodes being capable of assigning itself a time slot from available time slots of said time multiplex structure; and

at least one static node, said at least one static node belonging to said network of nodes;

wherein said at least one static node is pre-assigned a time slot in a frame of said time multiplex structure.

- 11. The communication system according to claim 10, wherein said at least one static node is a node critical to operation of said network of nodes.
- 12. The communication system according to claim 10, wherein said at least one static node is a node not capable of participating in said dynamic assignment protocol.

- 13. The communication system according to claim 10, wherein said dynamic assignment protocol comprises a unifying slot assignment protocol.
- 14. The communication system according to claim 10, wherein said time multiplex structure comprises a time division multiple access structure.
- 15. The communication system according to claim 10, wherein said network of nodes further comprises a frequency division multiple access structure integrated with said time multiplex structure.
- The communication system according to claim 10, further comprising a dynamic node participating in said dynamic assignment protocol, said dynamic node having a pre-assigned broadcast time slot in a frame of said time multiplex structure.
- 17. The communication system according to claim 16, wherein said dynamic node serves as a surrogate for said at least one static node.

/ 18. A communication system, comprising:

a network of nodes, each node being capable of communication during time slots of a time multiplex structure;

first dynamic node means for participating in a dynamic assignment protocol, said first dynamic node means being capable of assigning itself a time slot from available time slots of said time multiplex structure, said first dynamic node means being a member of said network of nodes; and

static node means for participating in the network, said static node means belonging to said network of nodes;

wherein said static node means is pre-assigned a time slot in a frame of said time multiplex structure.

- 19. The communication system according to claim 18, further comprising second dynamic node means for participating in said dynamic assignment protocol, said second dynamic node means having a pre-assigned time slot in a frame of said time multiplex structure.
- 20. The communication system according to claim 19, wherein said second dynamic node means serves as a surrogate for said static node means.

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